

LEPIDOPTERA OF THE M'ZAB COUNTRY, SOUTH ALGERIA,
COLLECTED BY DR. ERNST HARTERT AND CARL
HILGERT IN 1914.*

By LORD ROTHSCHILD, F.R.S., PH.D.

RHOPALOCERA

PAPILIONIDAE

Papilioninae

1. *Papilio machaon saharae* Oberth.

Papilio machaon var. *saharae* Oberthür, *Etud. d'Entom.* iv. p. 68. sub. No. 192 (1879) (Laghouat).

1 ♀, Oued Nça, April 16–30 (1914); 2 ♂♂, 1 ♀, Ghardaia, May 1–3 (1914).

Pierinae

2. *Teracolus daira nouna* (Luc.)

Anthocharis nouna Lucas, *Explor. Scient. d'Algérie, Zool.* iii. p. 350. No. 14. t. 1. f. 2 (1819) (Algeria).

17 ♂♂, 4 ♀♀, Ghardaia, May 1–3 (1914).

3. *Pieris daplidice albidice* Oberth.

Pieris daplidice var. *albidice* Oberthür, *Etud. d'Entom.* vi. p. 47 (1881) (Algeria).

2 ♂♂, Ghardaia, May 1–3 (1914).

NYMPHALINAE

4. *Pyrameis cardui cardui* (Linn.)

Papilio cardui Linnaeus, *Fauna Suecica*, p. 276. No. 1054 (1761) (Sweden).

This species was as usual very abundant, but the bulk of the specimens were small.

2 ♂♂, Oued Nça, April 16–30 (1914).

5. *Melitaea didyma harterti* Rothschr.

Melitaea didyma harterti Rothschild, *Nov. Zool.* xx. p. 115. No. 13 (1913) (El Hadadra).

4 ♂♂, 1 ♀, Ghardaia, May 1–3 (1914).

LYCAENIDAE

6. *Tarucus theophrastus theophrastus* (Fabr.)

Hesperia theophrastus Fabricius, *Entom. System.* iii. p. 281. No. 82 (1793) (Morocco).

13 ♂♂, 8 ♀♀, Ghardaia, May 1–3 (1914).

* For particulars of localities see *antea*, pp. 61–4.

HETEROCHERA
S PHINGIDAE
Choerocampinae

7. Celerio euphorbiae deserticola (Bartel)

Deilephila mauretanica ab. *deserticola* Bartel, in Rühl, *Palaearkt. Grossschmett.* ii. p. 79 (1899) (Mauretania).

Only the one specimen seen.

1 ♀, Oued Nça, April 16–30 (1914).

8. Celerio lineata livornica (Esp.)

Sphinx livornica Esper, *Schmett.* ii. p. 196 (1779) (Europe).

Very abundant but mostly worn.

1 ♂, 1 ♀, Oued Nça, April 16–30 (1914).

LYMANTRIIDAE

9. Albarracina warionis warionis (Oberth.)

Bombyx warionis Oberthür, *Etud. d'Entom.* vi. p. 75. t. ii, f. 6 (1881) (Oran).

1 ♀, El Alia, between Touggourt and Guerrara, April 12 (1914).

NOCTUIDAE

Agrotinae

10. Chloridea nubigera (Herr.-Sch.)

Heliothis nubigera Herrich-Schäffer, *Syst. Bearb. Schmett. Eur.* ii. p. 366 (1845) (Europe).

4 ♂♂, 4 ♀♀, Oued Nça, April 16–30; 1 ♂, Ghardaïa, May 1–3 (1914).

11. Timora albida Hmps.

Timora albida Hampson, *Ann. Mag. Nat. Hist.* (7) xv. p. 450. No. 197a (1905) (Hammam-es-Salahin).

2 ♀♀, Hassi Dinar, south of Touggourt, April 11; 4 ♂♂, 4 ♀♀, El Alia, between Tonggourt and Guerrara, April 12; 3 ♂♂, El Arich, east of Guerrara, April 13; 1 ♂, Hassi Sidi Mahmud, between El Arich and the Oued Nça, April 14; 1 ♂, Oued Nça, April 16–30 (1914).

The late Mr. Warren and others have confused this very distinct species with *Oria (Argyrostipa) striata* Stand.

12. Euxoa oranaria (Bang-Haas)

Agrotis oranaria Bang-Haas, *Iris*, xix. p. 133. pl. v. f. 9 (1906) (Sud Oranais).

12 ♂♂, 11 ♀♀, Oued Nça, April 16–30 (1914).

13. Euxoa mauretanica (Bang-Haas)

Agrotis mauretanica Bang-Haas, *Iris*, xxiv. p. 36. pl. 3. f. 4 (1910) (Süd-Oran).

12 ♂♂, 28 ♀♀, Oued Nça, April 16–30 (1914).

14. **Euxoa radius** (Haw.) ($=puta$ Hübn. et anet.)*Bombyx radius* Haworth, *Lepid. Brit.* p. 119 (1809) (England).

2 ♂♂, Oued Nça, April 16-30 (1914).

15. **Agrotis ypsilon** (Rott.)*Noctua ypsilon* Rottenburg, *Naturforscher*, ix. p. 41 (1776) (Europe).

22 ♂♂, 19 ♀♀, Oued Nça, April 16-30 (1914).

16. **Lycophotia photophila ignipeta** (Oberth.)*Agrotis ignipeta* Oberthür, *Etud. d'Entom.* i. p. 45. t. iv. f. 4 (1876) (Oran).Differs from typical *photophila* in its paler hindwings and more distinct yellowish transverse bands on forewings.

3 ♂♂, Oued Nça, April 16-30; 1 ♀, Ghardaïa, May 1-3 (1914).

(25 ♂♂ and ♀♀, May 1-15 (1913), Ain Sefra, Sud Oranais, W. R. & E. H.)

Hadeninae17. **Scotogramma trifolii farkasii** (Treitsch.)*Noctua farkasii* Treitschke, *Schmett. Europ.* x. pt. 2, p. 74 (1835) (Europe).

6 ♂♂, 9 ♀♀, Oued Nça, April 16-30 (1914).

18. **Scotogramma treitschkei** (Boisd.)*Hadena treitschkei* Boisduval, *Ann. Soc. Linn. Paris*, 1827, p. 111. pl. 6. f. 2 (South France).

5 ♂♂, 3 ♀♀, Oued Nça, April 16-30 (1914).

19. **Odontelia griseola** Rothschild*Odontelia griseola* Rothschild, *Nor. Zool.* xx. p. 121. No. 37 (1913) (Mraier).

1 ♂, Hassi Dinar, S. of Touggourt, April 11 (1914).

Cucullianae20. **Copiphana gafsana** (Blachier)*Cleophana gafsana* Blachier, *Bull. Soc. Entom. France*, 1905, p. 53 (Gafsa, Tunis).4 ♂♂, 3 ♀♀, ab. *albina*, Oued Nça, April 16-30 (1914).21. **Cleophana vanlogeri** Stand.*Cleophana vanlogeri* Staudinger, *Iris*, xii. p. 378. pl. v. f. 9 (1899) (Biskra).

2 ♂♂, 2 ♀♀, Oued Nça, April 16-30 (1914).

22. **Cleophana fatima** Bang-Haas*Cleophana fatima* Bang-Haas, *Iris*, xx. p. 73. t. iii. f. 14 (1907) (Gafsa, Tunis).

1 ♀, Oued Nça, April 16-30 (1914).

23. Cleophana chabordis Oberth.

Cleophana chabordis Oberthür, *Etud. d'Entom.* i. p. 47. pl. ii. f. 2 (1876) (Bou Saada).

About half this huge series is ab. *albicans* and intermediates.

1 ♂, El Alia, between Touggourt and Guerrara, April 12; 1 ♀, El Arich, E. of Guerrara, April 13; 24 ♂♂ and ♀♀, Hassi Sidi Mahmud, between El Arich and Oued Néa, April 14; 306 ♂♂ and ♀♀, Oued Néa, April 16-30 (1914).

24. Metapoceras omar (Oberth.)

Cleophana omar Obertbur, *Bull. Soc. Entom. France*, 1887, p. 57 (Oued Leber, Tunis).

1 ♂, 1 ♀, Oued Néa, April 16-30 (1914).

25. Harpagophana picturata (Rothsch.)

Cleophana picturata Rothschild, *Entom. Zeitsch.* xxiii. p. 142 (1909) (Mraier).

The present specimen is the fourth recorded in five years, so that the species must be very rare.

1 ♀, Oued Néa, April 16-30 (1914).

26. Criophasia albolineata (Blachier)

Calophasia albolineata Blachier, *Bull. Soc. Entom. France*, 1905, p. 53 (Gafsa, Tunis).

1 ♀, Oued Néa, April 16-30 (1914).

27. Calophasia kraussi Rebel

Calophasia kraussi Rebel, *Verh. zool. bot. Gesell. Wien*, 1895, p. 348 (Ouargla).

All intergradations, except ab. *brunnea*, occur in this series between typical *kraussi* and ab. *albo-ochracea*, and one is entirely white.

1 ♂, 1 ♀, El Alia, between Touggourt and Guerrara, April 12; 3 ♀♀, El Arich, E. of Guerrara, April 13; 25 ♂♂ and ♀♀, Oued Néa, April 16-30 (1914).

Acronyctinae

28. Iambiodes incerta (Rothsch.)

Bryophila incerta Rothschild, *Nov. Zool.* xx. p. 125. No. 51 (1913) (Oued Néa).

3 ♂♂, 2 ♀♀, Oued Néa, April 16-30 (1914).

29. Laphigma exigua junceti (Zell.)

Caradrina junceti Zeller, *Iris*, 1847, p. 445 (Spain).

4 ♂♂, 9 ♀♀, Oued Néa, April 16-30 (1914).

30. Rabinopteryx subtilis (Mab.)

Epimecia subtilis Mabille, *Bull. Soc. Entom. France*, 1888, p. 51 (Gabés, Tunis).

3 ♀♀, Oued Néa, April 16-30 (1914).

31. Athetis clavigipalpis (Scop.)

Phalaena clavigipalpis Scopoli, *Entom. Carn.* p. 213 (1763) (Carniola).

1 ♂, Oued Néa, April 16-30 (1914).

32. Athetis oberthuri Rothschr.

Athetis oberthuri Rothschild, *Nov. Zool.* xx. p. 126. No. 57 (1913) (South Oued Mya).

1 ♂, 1 ♀, Oued Nça, April 16–30 (1914).

33. Athetis approximans Rothschr.

Athetis approximans Rothschild, *Nov. Zool.* xxi. p. 334. No. 187 (1914) (Guelt-es-Stel).

The capture of this insect in April finally settles any doubt that may have been felt that it could be the autumn brood of *flava* Oberth.

3 ♂♂, Oued Nça, April 16–30 (1914).

Erastrianae

34. Eublemma mozabitica Rothschr.

Eublemma mozabitica Rothschild, *Nov. Zool.* xix. p. 126. No. 5 (1912) (Ghardaia).

3 ♀♀, Oued Nça, April 16–30 (1914).

35. Eublemma albivestalis Hmpsnn.

Eublemma albivestalis Hampson, *Cat. Lepid. Phal. Brit. Mus.* x. p. 191. No. 592. pl. cliv. f. 25 (1910) (Palestine, Dead Sea) = *Talpochares vestalis* Standinger, *Iris*, xii. p. 385 (1899) (Nom. praeoc.).

2 ♀♀, Oued Nça, April 16–30 (1914).

36. Eublemma wollastoni N. C. Rothschr.

Eublemma wollastoni N. C. Rothschild, *Nov. Zool.* viii. p. 430. No. 27 (1901) (Shendi).

3 ♀♀, Oued Nça, April 16–30 (1914).

37. Eublemma lacteola Rothschr.

Eublemma lacteola Rothschild, *Nov. Zool.* xxi. p. 339. No. 210 (1914) (Guelt-es-Stel).

1 ♂, 3 ♀♀, Oued Nça, April 16–30 (1914).

38. Eublemma ernesti sp. nov.

♂ ♀. Antennae above white, below amber-brown; head, thorax, and abdomen white.

Forewing: white; a grey spot at end of cell, a submarginal row of minute black dots.

Hindwing: creamy white.

Length of forewing: 11–12.5 mm.

Expanse: 25.5–28.5 mm.

2 ♂♂, 4 ♀♀, Oued Nça, April 16–30 (1914) (♀ Type).

39. Eublemma conistrota Hmpsnn.

Eublemma conistrota Hampson, *Cat. Lepid. Phal. Brit. Mus.* x. p. 192. No. 5296. pl. cliv. f. 29 (1910) (Quetta, Beluchistan).

1 ♀, Hassi Dinar, Sonth of Touggourt, April 11; 2 ♀♀, El Alia, between Tonggourt and Guerrara, April 12; 1 ♀, El Arich, east of Guerrara, April 13; 1 ♂, 2 ♀♀, Hassi Sidi Mahmud, between El Arich and the Oued Nça, April 14; 3 ♂♂, 2 ♀♀, Oued Nça, April 16–30 (1914).

40. **Tarache biskrensis** (Oberth.)

Acontia biskrensis Oberthür, *Bull. Soc. Entom. France*, 1887, p. 58 (Biskra).

This species is almost as variable in the amount of white on wings and body as *T. lucida* (Hufn.).

1 ♂, 3 ♀♀, El Alia, between Touggourt and Guerrara, April 12; 2 ♂♂, 6 ♀♀, Hassi Sidi Mahmud, between El Arich and the Oued Nça, April 14; 2 ♂♂, 12 ♀♀, Oued Nça, April 16–30 (1914).

41. **Tarache lucida** (Hufn.)

Noctua lucida Hufnagel, *Berlin. Mag.* iii. p. 302 (1776) (Berlin).

2 ♂♂, Oned Nça, April 16–30 (1914).

Catocalinae42. **Anydromphila sabourodi** (Luc.)

Palpangula sabourodi Lucas, *Bull. Soc. Entom. France*, 1907, p. 180 (Zarcine, Tunisia).

These two specimens are the first to be recorded from Algeria, and, together with the type and a ♂ from Asekse, north of the Hoggar Mountains, collected by Herr Geyr von Schweppenburg (also in the Tring Museum) are the only specimens recorded of this species.

2 ♂♂, Oned Nça, April 16–30 (1914).

43. **Cerocala algiriae** Oberth.

Cerocala scapulosa var. *algiriae* Oberthür, *Etbl. d'Entom.* i. p. 55. pl. iv. f. 7 (1876) (Bou Saada).

Both the late Mr. W. Warren and Sir George Hampson have retained *scapulosa*, *insana*, and *sana* as three distinct species, while in the *Staudinger-Rebel Catalogue* they are treated as three forms of one species. Dr. Jordan has examined the Algerian forms for me and found that *insana* Herr.-Sch., and *sana* Staud. are certainly distinct species both from *scapulosa* and each other—differing in their antennae and genitalia as well as in marking. Now both Warren and Hampson have identified *algiriae* Oberth. with *insana* Herr.-Sch. I, however, have not adopted this view because (1) the pattern of the forewing is different and the hindwing is much whiter, and (2) the locality Cape of Good Hope must be taken into account. Although there is, as Hampson says, every probability that this locality is erroneous, yet at the same time we must remember that few if any Lepidoptera came from Algeria in Herrich-Schäffer's time. I therefore prefer to call this form *algiriae* Oberth. and put *insana* Herr.-Sch. under it with a ?.

1 ♀, Hassi Sidi Mahmud, between El Arich and the Oued Nça, April 14; 2 ♂♂, Oued Nça, April 16–30 (1914).

44. **Cerocala sana** Staud.

Cerocala scapulosa var. *sana* Staudinger, *Cat. Lepid. Palaearkt. Faun.* p. 241. No. 2594a (1901) (Syria).

1 ♀, El Alia, between Touggourt and Guerrara, April 12; 1 ♂, El Arich, E. of Guerrara, April 13; 2 ♂♂, 2 ♀♀, Oued Nça, April 16–30 (1914).

Phytometrinae

45. *Phytometra ni deserticola* (Rothscl.)

Plusia ni deserticola Rothschild, Nov. Zool. xx. p. 129 (1913) (El Golea).

2 ♀♀, Oued Nça, April 16–13 (1914).

Noctuinae

46. *Anumcta cestis* (Mén.)

Catephia cestis Ménétriés, Mém. Acad. Impér. St. Petersb. vi. p. 290 (74) (1849) (Naru, Ross. Mer. Or.).

2 ♀♀, Oued Nça, April 16–30 (1914).

[In *Novitates Zoologicae* xx. p. 129 I identified the Algerian subspecies of *A. spilota* (Ersch.) as *Anumeta henkei* (Staud.). On p. 469 of the same volume I described this form as *A. henkei harterti*. I now find that I have referred this form to the wrong species, and it must stand as *Anumeta spilota harterti*, or, as some writers conclude (I disagree), as *Anumeta atrosignata harterti*. Sir George Hampson has united my *harterti* with *spilota* as identical, but this is certainly not the case; *harterti* is paler, much more sandy yellow, and the markings are much sharper; it is a good local subspecies. The late Mr. W. Warren in *Seitz*, iii. p. 388 has mixed up my *A. h. harterti* with my *A. major* (*Nov. Zool.* xx. p. 130, No. 79 (1913) (N. of El Golea)). He figures *harterti* and describes *major*, and calls this combination *harterti*. The facts are that *A. major* is a perfectly distinct species, the ♀ of which is the largest of the genus. I have lately received from Herr Geyr von Schweppenburg 10 ♂♂ and 5 ♀♀ from the country round the Hoggar Mountains.]

47. *Aleucanitis philippina* (Aust.)

Loucanitis philippina Austaut, Le Naturaliste, 1880, p. 237 (Oran).

Mr. Warren has quite failed to understand the description of Austaut and also the *Staudinger-Rebel Catalogue*. Dr. Hartert's collection contains a ♂ and a ♀ which clearly have the black bar running in from the outer band to the base. *A. philippina* is quite a distinct species and not a form of *A. cailino*.

1 ♂, 1 ♀, Oued Nça, April 16–30 (1914).

48. *Aleucanitis cailino* (Lef.)

Heliothis cailino Lefebvre, Ann. Soc. Linn. Paris, 1827, p. 91, t. 5, f. 1 (Sicily).

1 ♂, 1 ♀, Oued Nça, April 16–30 (1914).

49. *Armada panaceorum distincta* subsp. nov.

♂. Much paler than *p. panaceorum*, and the markings on the forewing much more sharply defined. The white patch in the black band of hindwing is also much larger.

1 ♂, Hassi Sidi Mahmud, between El Arich and the Oued Nça, April 14; 3 ♂♂, Oued Nça, April 16–30 (1914).

50. *Apopestes catastaphanes roseata* (Rothscl.)

Spiutherops roseata Rothschild, Nov. Zool. xix. p. 126 (1912) (Ghardaia).

4 ♂♂, 1 ♀, Oued Nça, April 16–30 (1914).

51. *Apopestes dilucida rosea* (Stand.)

Spintherops dilucida var. *rosea* Standinger, *Stett. Entom. Zeit.* xlix. p. 63 (1888) (Biskra).

9 ♂♂, 11 ♀♀, Oued Néa, April 16–30 (1914).

GEOMETRIDAE**Acidalinae****52. *Glossotrophia romanarioides* (Rothsch.)**

Acidalia romanarioides Rothschild, *Nov. Zool.* xx. p. 131. No. 89 (1913) (South Oued Mya).

2 ♂♂, 4 ♀♀, Oued Néa, April 16–30 (1914).

53. *Acidalia luteofasciata* Rothschild

Acidalia luteofasciata Rothschild, *Nov. Zool.* xx. p. 132. No. 90 (1913) (Oued Néa).

2 ♀♀, Oued Néa, April 16–30 (1914). .

Larentiinae**54. *Rhomometra anthophilaria consecraria* (Ramb.)**

Sterha consecraria Rambur, *Cat. Syst. Lep. Ind. t.* xx. ff. 5. 6 (1858) (Andalusia).

1 ♀, Oued Néa, April 16–30 (1914).

55. *Lithostege fissurata* Mab.

Lithostege fissurata Mabille, *Bull. Soc. Entom. France*, 1888, p. 58 (Gabés, Tunisia).

1 ♂, El Alia, between Touggourt and Guerrara, April 12; 1 ♀, El Arich, east of Guerrara, April 13 (1914).

56. *Lithostege?* *marmorata* Bang-Haas

Lithostege marmorata Bang-Haas, *Iris*, xx. p. 83. t. iii. f. 15 (1907) (Gafsa, Tunisia).

2 ♀♀, El Alia, between Touggourt and Guerrara, April 12 (1914).

57. *Tephroclystia breviculata* (Donz.)

Melanthis breviculata Donzel, *Ann. Soc. Entom. France*, vi. p. 478. t. 18. f. 7 (1837) (Hyères).

1 ♀, Oued Néa, April 16–30 (1914).

58. *Gymnoscelis harterti* sp. nov.

♂. Antennae black-brown, ciliae greyish; head and body cinnamon-wood-brown.

Forewing: pale cinnamon buff, costal area with seven or eight cinnamon-rufous patches, rest of wing with numerous sinuate cinnamon-rufous transverse lines, suffused and splashed with cinnamon-rufous.

Hindwing: cinnamon-buff almost completely overlaid with cinnamon-rufous patches and lines.

♀. Much larger, creamy whitish grey densely overlaid with pale cinnamon grey lines and patches.

Length of forewing: ♂ 7 mm., ♀ 9 mm.

Expanse: ♂ 16 mm., ♀ 20 mm.

1 ♂, 1 ♀, Oued Néa, April 16–30 (1914).

Boarmianae**59. Zuleika nobiliaria (Bang-Haas)**

Scodionia nobiliaria Bang-Haas, *Iris*, xix, p. 141. t. v. f. 13 (1906) (Gourine, Tunis♂, Sud Oranais ♀)

1 ♀, Oued Nça, April 16-30 (1914).

Cossidae**60. Cossus aries Püng.**

Cossus aries Püngler, *Iris*, xv, p. 145. t. vi. f. 22 (1902) (Palestine).

1 ♂, 1 ♀, Oued Nça, April 16-30 (1914).

61. Dyspessa ? suavis (Stand.)

Endagria jordana var. *suavis* Staudinger, *Iris*, xii, p. 355. t. v. f. 7 (1900) (Algeria).

This is quite distinct from *jordana*, and must stand as a good species.

1 ♀, El Arich, east of Guerrara, April 13 (1914).

[Dr. O. Staudinger described and figured a cossid (*Iris*, x, p. 155. t. v. f. 13, 1897) under the name of *Hypopta? vaulogeri* from Chellala, Algeria. In 1913 Dr. Hartert, Herr Carl Hilgert, and I succeeded in capturing 7 ♂♂ and 16 ♀♀ of this exceedingly rare insect at Ain Sefra, Sud Oranais, in May. I consider that although it is much more hairy than *D. jordana* and *D. suavis* it nevertheless belongs in the same genus. I believe, however, that eventually all three will, together with *asema* Püng., have to be put in a new genus.]

PYRALIDAE**Gallerianae****62. Lamoria anella (Schiff.)**

Tinea anella Schiffermüller, *Syst. Verz. Schmett. Wien*, p. 135 (1776) (Vienna).

4 ♀♀, Oued Nça, April 16-30 (1914).

63. Arenipsis sabella Hmps.

Arenipsis sabella Hampson, *Mém. Lepidop.* viii, p. 501. No. 93. pl. xxiv. f. 1 (1901) (Fao).

2 ♀♀, El Alia, between Touggourt and Guerrara, April 12 (1914).

Anerastianae**64. Pectinigera hilgerti sp. nov.**

♂. Antennae brownish buff; head, thorax, and abdomen creamy buff.

Forewing: buffish straw-colour, costal area paler.

Hindwing: semivitreous cream-white.

♀. *Forewing*: darker straw-colour, costal area whiter.

Length of forewing: ♂ 15 mm., ♀ 18.5 mm.

Expanse: ♂ 34 mm., ♀ 42 mm.

1 ♂, 5 ♀♀, El Alia, between Tongourt and Guerrara, April 12 (1914).

65. *Lymire albicostalis* (Rothsch.)

Enosoma albicostalis Rothschild, *Nov. Zool.* xx, p. 138. No. 134 (1913) (S. of El Golea).

Sir George Hampson declared that my *Enosoma albicostalis* and my *Lymire lactealis* were ♂ and ♀, and the insect I put as ♀ of *lactealis* was a Phycid. In the present collection are true ♀♀ of *lactealis* as well as ♂♂ of *albicostalis*, and they are two quite distinct species.

2 ♀♀, Hassi Dinar, South of Touggourt, April 11; 9 ♂♂, El Alia, between Touggourt and Guerrara, April 12; 1 ♂, El Arich, east of Guerrara, April 13; 1 ♀, Hassi Sidi Mahmud, between El Arich and Oued Néa, April 14; 4 ♂♂, 2 ♀♀, Oued Néa, April 16–30 (1914).

66. *Lymire strictipennis* sp. nov.

♂. Antennae, head, and thorax wood-grey suffused with buff; abdomen dark buff.

Forewing: wood-brown, costal area pale buff.

Hindwing: semivitreous cream-white.

Length of forewing: 11 mm.

Expanse: 25 mm.

1 ♂, El Alia, between Touggourt and Guerrara, April 12 (1914).

67. *Lymire lactealis* Roths.

Lymire lactealis Rothschild, *Nov. Zool.* xx, p. 138. No. 130 (1913) (Igosten).

1 ♀, Hassi Dinar, south of Touggourt, April 11; 4 ♀♀, El Alia, between Touggourt and Guerrara, April 12; 1 ♂, 1 ♀, Oued Néa, April 16–30 (1914).

68. *Anerastia ablutella* Zell.

Anerastia ablutella Zeller, *Isis*, 1839, p. 178 (Sicily).

4 ♀♀, Oued Néa, April 16–30 (1914).

Crambinae

69. *Eromene ocellea* (Haw.)

Palparia ocellea Haworth, *Lepid. Brit.* p. 486. No. 21 (1812) (Nr. London).

2 ♂♂, Oued Néa, April 16–30 (1914).

Phycitinae

70. *Myelois nivosella* Rag.

Myelois nivosella Ragonot, *Bull. Soc. Entom. France*, 1890, p. cix. (Lambése).

2 ♀♀, Oued Néa, April 16–30 (1914).

71. *Myelois osseilla* Rag.

Myelois osseilla Ragonot, *Ann. Soc. Entom. France*, 1887, p. 226 (Beyrouth).

1 ♂, Oued Néa, April 16–30 (1914).

72. *Myelois unipunctella* Chrét.

Myelois unipunctella Chrétien, Ann. Soc. Entom. France, lxxix, p. 517 (1911) (Algeria).

1 ♂, Oued Néa, April 16–30 (1914).

73. *Rhodophaea semistrigella* Mab.

Rhodophaea semistrigella Mabille, Bull. Soc. Entom. France, 1908, p. 68 (Tunis).

1 ♂, Oned Néa, April 16–30 (1914).

74. *Nephopteryx cleopatrella* Rag.

Nephopteryx cleopatrella Ragonot, Ann. Soc. Ent. France, 1887, p. 231 (Gabés, Tunisia).

4 ♂♂, 2 ♀♀, Oned Néa, April 16–30 (1914).

75. *Nephopteryx genistella* (Dup.)

Phycis genistella Duponchel, Hist. Nat. Lepid. France, x, p. 178, pl. 278, f. 4 (1836) (Corsica).

1 ♂, Oued Néa, April 16–30 (1914).

76. *Nephopteryx albovariegata* sp. nov.

♀. Antennae whitish brown; head and thorax yellowish white; abdomen cinnamon-buff.

Forewing: cinnamon-brown, suffused and variegated with white; an oblique antemedian band of orange-cinnamon edged outwardly with white; disc with broad orange-cinnamon longitudinal bands joined to a postdiscal transverse band of the same colour; fringe fuscous-grey.

Hindwing: semivitreous yellowish white, an ill-defined, cloudy terminal band of orange-cinnamon. The El Alia ♀ has the orange-cinnamon colour replaced by olive-brown.

Length of forewing: 12 mm.

Expanse: 27 mm.

1 ♀, Hassi Dinar, south of Tonggourt, April 11 (type); 1 ♀, El-Alia, between Tonggourt and Guerrara, April 12 (1914).

77. *Nephopteryx griseola* sp. nov.

♂. Antennae white, closely ringed with dark brown, a blackish comb near base; head and thorax creamy white irrorated with dark grey; thorax buff, variegated with grey and white.

Forewing: white, suffused with buff and densely striated and powdered with sooty slate-grey, an oblique black band from before apex to vein 5.

Hindwing: wood-grey, washed with brown fringe, whitish.

♀. Paler, less striated.

Length of forewing: ♂ 12 mm., ♀ 10 mm.

Expanse: ♂ 27 mm., ♀ 23 mm.

2 ♂♂, 2 ♀♀, Oued Néa, April 16–30 (1914).

78. *Nephopteryx ardesiifascia* sp. nov.

♀. Antennae whitish, closely ringed with sooty brown; head and thorax greyish white, suffused with sooty black; abdomen pale ash-grey.

Forewing: greyish white, densely powdered with sooty slate-grey; a broad oblique antemedian band dark slate-grey; two oblique zigzag dark-slate lines; a broad terminal area brown irrorated with dark slate.

Hindwing: semihyaline white, a brown-grey terminal line from which a few smears of same colour run into wing.

Length of forewing: 13 mm.

Expanse: 29 mm.

1 ♀, Hassi Dinar, south of Tonggourt, April 11; 1 ♀, El Alia, between Tonggourt and Gnerrara, April 12 (1914).

79. *Pristarthria brephiella* (Stand.)

Nephopteryx brephiella Standinger, Hor. Soc. Entom. Ross, xv. pp. 193, 194 (1879) (Macedonia).

19 ♂♂, 19 ♀♀, Oned Nça, April 16-30 (1914).

80. *Metalosticha cinnamomea* sp. nov.

♂. Antennae, head, and thorax dark cinnamon; abdomen slightly paler.

Forewing: dark cinnamon; a postmedian black X with the arms partly filled in by a dusting of blaeckish scales; a brown-black terminal band.

Hindwing: semihyaline cinnamon-buff.

♀. Similar, but larger, and the postmedian X replaced by an irregular patch due to partial suppression of two of the arms of the X.

Length of forewing: ♂ 6.5 mm., ♀ 8 mm.

Expanse: ♂ 15 mm., ♀ 18 mm.

2 ♂♂, 1 ♀, Oned Nça, April 16-30 (1914).

81. *Staudingeria calcariellina* Rothschild.

Staudingeria calcariellina Rothschild, Nor. Zool. xx. p. 136. No. 118 (1913) (Hassi-el-Hadjar).

2 ♂♂, 2 ♀♀, Oned Nça, April 16-30 (1914).

82. *Staudingeria calcariella* Rag.

Staudingeria calcariella Ragonot, Mém. Lépid. Rom. viii. p. 135. No. 180. pl. xxviii. f. 13 (1901) (Gabès, Tunisia).

12 ♂♂, 6 ♀♀, Oned Nça, April 16-30 (1914).

83. *Staudingeria griseolella* sp. nov.

♂ ♀. Antennae brown; head and thorax white, powdered with dark grey; abdomen greyish buff, powdered with grey.

Forewing: white, finely powdered with chocolate-brown, somewhat massed into stripes or bands.

Hindwing: semihyaline buffy white; a brownish terminal line suffused inwards into the wing.

Length of forewing: ♂ 10 mm., ♀ 8 mm.

Expanse: ♂ 22 mm., ♀ 18 mm.

12 ♂♂, 2 ♀♀, Oned Nça, April 16-30 (1914).

84. *Staudingeria albinotella* Rag.

Staudingeria albinotella Ragonot, Ann. Soc. Entom. France, 1887, p. 249 (Sharud, Persia).

1 ♂, Oned Nça, April 16-30 (1914).

85. Staudingeria lacteella sp. nov.

♀. Antennae, head, thorax, and abdomen cream-white.

Forewing: greyish cream-white; a spot before apex, one at apex of and one in cell, a line on vein 1 and a slightly broken terminal line black-brown.

Hindwing: semihyaline greyish, white-terminal line darker.

Length of forewing: 8·5 mm.

Expanse: 19 mm.

1 ♀, Oued Néa, April 16–30 (1914).

86. Heterographis deserticola (Staud.)

Myelois deserticola Staudinger, *Berl. Entom. Zeit.* xiv. p. 201. No. 39 (1870) (Sarepta).

3 ♂♂, 2 ♀♀, El Alia, between Touggourt and Guerrara, April 12; 1 ♂, Hassi Sidi Mahmud, between El Arich and Oued Néa, April 14; 1 ♂, 1 ♀, Oued Néa, April 16–30 (1914).

87. Heterographis convexella Led.

Heterographis convexella Lederer, *Verh. zool.-bot. Gesell. Wien*, 1855, p. 222. t. 4 f. 9 (Syria).

1 ♂, Oued Néa, April 16–30 (1914).

88. Heterographis cinuamomeifascia sp. nov.

♂. Antennae, head, thorax, and abdomen cinnamon.

Forewing: deep brown; costal area, an oblique antemedian band, subterminal band, fringe, a line above vein 1, and outer two-thirds of inner margin cinnamon.

Hindwing: semihyaline white outer two-fifths marked with pale cinnamon.

Length of forewing: 8·5 mm.

Expanse: 19 mm.

1 ♂, Hassi Dinar, south of Touggourt, April 11 (1914).

89. Ancylosis ustella Rag.

Ancylosis ustella Ragonot, *Ann. Soc. Entom. France*, 1887, p. 252. No. 141 (Sebdou).

1 ♂, 1 ♀, Hassi Dinar, south of Touggourt, April 11; 1 ♂, Oued Néa, April 16–30 (1914).

90. Ephestia kuehniella Zell.

Ephestia kuehniella Zeller, *Stett. Entom. Zeit.* xl. p. 466 (1879) (Germany).

1 ♀, Hassi Dinar, south of Touggourt, April 11 (1914).

91. Syria arenosella (Stand.)

Anerastia arenosella Staudinger, *Stett. Entom. Zeit.* xx. p. 227. No. 40 (1859) (Chiclana).

1 ♂, Oued Néa, April 16–30 (1914).

92. Diviana pallidimarginalis sp. nov.

♂ ♀, Antennae whitish brown with slightly darker rings; thorax brownish buff; abdomen pale buffy brown.

Forewing: brownish buff with a creamy band occupying costal area for basal

half of wing, from whence it widens to third of breadth of wing just before apex ; a few scattered dark scales on disc and an incomplete dark subterminal band.

Hindwing : semivitreous cream-buff.

Length of forewing : 10·5 mm.

Expanse : 23 mm.

1 ♂, Oued Néa, April 16–30 ; 1 ♂, 1 ♀, Hassi Dinar, south of Tonggourt, April 11 (1914).

93. *Homeosoma nimbella* (Zell.)

Anerastia nimbella Zeller, *Isis*, 1839, p. 178 (Glogau).

♂. *Forewing* : buffish cream ; two antemedian dark-grey spots and a post-discal dark-grey band, rest of wing slightly sprinkled with grey scales.

Hindwing : semivitreous grey paler towards base, fringe white.

Length of forewing : 10 mm.

Expanse : 22 mm.

1 ♂, Oued Néa, April 16–30 (1914).

Pyralinae

94. *Aglossa rhodalis* Hmpsn.

Aglossa rhodalis Hampson, *Ann. Mag. Nat. Hist.* (7) xvii. p. 218 (1906) (Cape Colony).

1 ♀, El Alia, between Touggourt and Gnerrara, April 12 ; 6 ♂♂, 2 ♀♀, Oued Néa, April 16–30 (1914).

95. *Aglossa rubralis* Hmpsn.

Aglossa rubralis Hampson, *Trans. Entom. Soc. Lond.* 1900, p. 378. No. (1a) (Syria).

2 ♂♂, 1 ♀, Oued Néa, April 16–30 (1914).

96. *Aglossa tenebrosalis* sp. nov.

♂. Antennae buff ringed closely with black-brown and with very long pectinations diminishing sharply on distal third ; head and thorax chocolate-brown powdered with buff ; abdomen brownish buff very sparsely freckled with brown.

Forewing : buff ; eight chocolate patches in costal region ; rest of wing densely suffused with patches of chocolate scales almost obliterating buff ground-colour and producing an effect of heavy clouding.

Hindwing : greyish buff costal and terminal areas clouded with brown.

Length of forewing : 15 mm.

Expanse : 34 mm.

1 ♂, Oued Néa, April 16–30 (1914).

97. *Aglossa harterti* sp. nov.

♂. Antennae pale cinnamon ; head, thorax, and abdomen rusty cinnamon.

Forewing : rusty cinnamon ; a row of buff spots along basal three-quarters of costa, a strongly curved antemedian band buff with some patches of deep rufous along its edges, a deep rufous stigma near apex of cell, a postmedian buff band edged inwardly and somewhat ill-definedly with dark rufous.

Hindwing: greyish buff indistinctly banded with a darker shade.

♀. Similar, but thorax dark rufous-cinnamon and abdomen pale cinnamon.

Forewing: deep rufous-cinnamon with markings less sharply defined.

Length of forewing: ♂ 13–15 mm., ♀ 11–14 mm.

Expanse: ♂ 29–33 mm., ♀ 25–31 mm.

3 ♂♂, 8 ♀♀, Oued Néa, April 16–30 (1914).

98. *Ulotricha algerialis* Hmpsnn.

Ulotricha algerialis Hampson, *Trans. Entom. Soc. Lond.* 1900, p. 377. No. (2) pl. iii. f. 18 (Biskra).

1 ♀, El Alia, between Touggourt and Guerrara, April 12; 3 ♂♂, Oued Néa, April 16–30 (1914).

99. *Constantia canifusalis* Hmpsnn.

Constantia canifusalis Hampson, *Trans. Entom. Soc. Lond.* 1900, p. 381. pl. iii. f. 16 (Biskra).

1 ♀, Hassi Dinar, south of Tonggourt, April 11; 1 ♀, El Alia, between Touggourt and Guerrara, April 12; 2 ♂♂, 1 ♀, Oued Néa, April 16–30 (1914).

100. *Cledeobia chellalis* Hmpsnn.

Cledeobia chellalis Hampson, *Trans. Entom. Soc. Lond.* 1900, p. 383 (Algeria).

7 ♂♂, 3 ♀♀, Oued Néa, April 16–30 (1914).

Hydrocampinae

101. *Nymphula bleusei* (Oberth.)

Synularia bleusei Oberthür, *Bull. Soc. Entom. France*, 1887, p. Ixxxii. (Biskra).

7 ♂♂, Oued Néa, April 16–30 (1914).

Pyraustinae

102. *Nomophila noctuella* (Schiff.)

Pyralis noctuella Schiffermüller, *Syst. Verz. Schmett. Wien*, p. 136 (1776) (Vienna).

6 ♂♂, 5 ♀♀, Oued Néa, April 16–30 (1914).

103. *Evergestes renatalis* (Oberth.)

Orobena renatalis Oberthür, *Bull. Soc. Entom. France*, 1887, p. xcix. (Bou Saada, etc.).

1 ♂, Oued Néa, April 16–30 (1914).

104. *Metasia pseudobotys* Rothschi.

Metasia pseudobotys Rothschild, *Nat. Zool.* xx. p. 141. No. 154 (1913) (South Oued Mya).

1 ♀, Oued Néa, April 16–30 (1914).

105. *Cornifrons ulceratalis* Led.

Cornifrons ulceratalis Lederer, *Wien. Entom. Monatschr.* 1858, p. 147. t. 4. f. 1 (Syria).

1 ♂, Hassi Dinar, south of Touggourt, April 11; 2 ♀♀, El Alia, between Touggourt and Guerrara, April 12; 3 ♂♂, 5 ♀♀, Oued Néa, April 16–30 (1914).

106. *Noctuelia floralis* (Hübner.)

Pyralis floralis Hübner, Samm. Europ. Schmett., Pyr. f. 142 (1793-1827) (Europe).

1 ♂, 1 ♀, Ghardaia, May 1-3 (1914).

107. *Noctuelia anaemicalis* Hmpsnn.

Noctuelia anaemicalis Hampson, Trans. Entom. Soc. Lond. 1900, p. 400. t. 3. f. 28 (Biskra).

1 ♂, 1 ♀, El Alia between Touggourt and Guerrara, April 11; 4 ♂♂, 1 ♀, El Arich, east of Guerrara, April 13; 1 ♂, 1 ♀, Hassi Sidi Mahmud between, Guerrara and Oued Nça, April 14 (1914).

108. *Noctuelia desertalis* (Hübner.)

Pyralis desertalis Hübner, Samm. Europ. Schmett., Pyr. f. 171 (1793-1827) (Europe).

5 ♂♂, 7 ♀♀, Oued Nça, April 16-30 (1914).

109. *Noctuelia allardalis* (Oberth.)

Orobona allardalis Oberthür, Bull. Soc. Entom. France, 1887, p. 99 (Aïu Sefra).

3 ♂♂, 2 ♀♀, Oued Nça, April 16-30 (1914).

110. *Noctuelia hilgerti* sp. nov.

♀. Antennae brown; head, thorax, and abdomen buffy white.

Forewing: sandy buff, somewhat suffused with white in central one-third; an antemedian somewhat indistinct curved brown band, a discocellular black stigma, a postmedian sinuate band of coalescent black spots, a broken black terminal line, fringe whitish.

Hindwing: buff, an obsolescent brown postmedian band and a black-brown terminal line.

Length of forewing: 8-10 mm.

Expanse: 19-23 mm.

2 ♀♀, Hassi Dinar, south of Touggourt, April 11 (1914).

111. *Noctuelia affinis* sp. nov.

♂. Nearest to *anaemicalis* Hmpsnn. Antennae dark grey; head, thorax, and abdomen cream-white, thorax freckled with grey.

Forewing: basal three-quarters cream-colour densely powdered with olive-brown, outer one-quarter pale blue-grey, a subterminal line black.

Hindwing: yellowish wood-grey.

Length of forewing: 7 mm.

Expanse: 16 mm.

1 ♂, Oued Nça, April 16-30 (1914).